

**FAX**

DATE: 2/4
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 **ANALOG
DEVICES**
PRECISION MONOLITHICS

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FAX Operator: Please make copies for each addressee at your location. Thank you.

Attached is a page describing the circuit
for the 4-20 mA transmitter. I hope
this makes sense. Let me know
if there are any questions.

Regards,
Joe

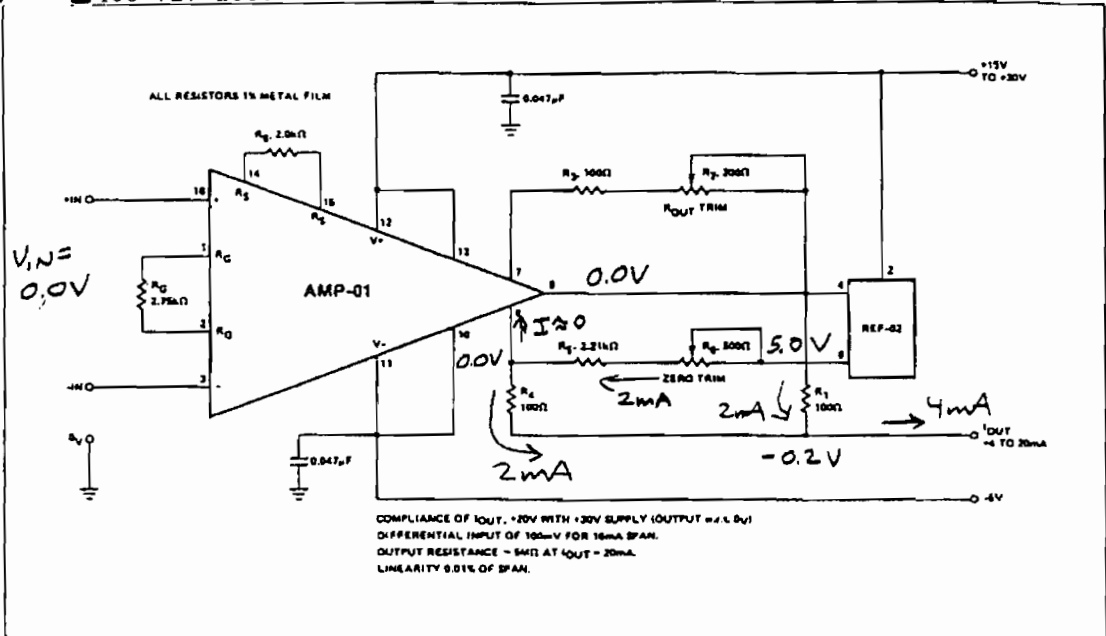


Figure 8. 13-bit linear 4-20mA transmitter constructed by adding a voltage reference. Thermocouple signals can be accepted without preamplification.

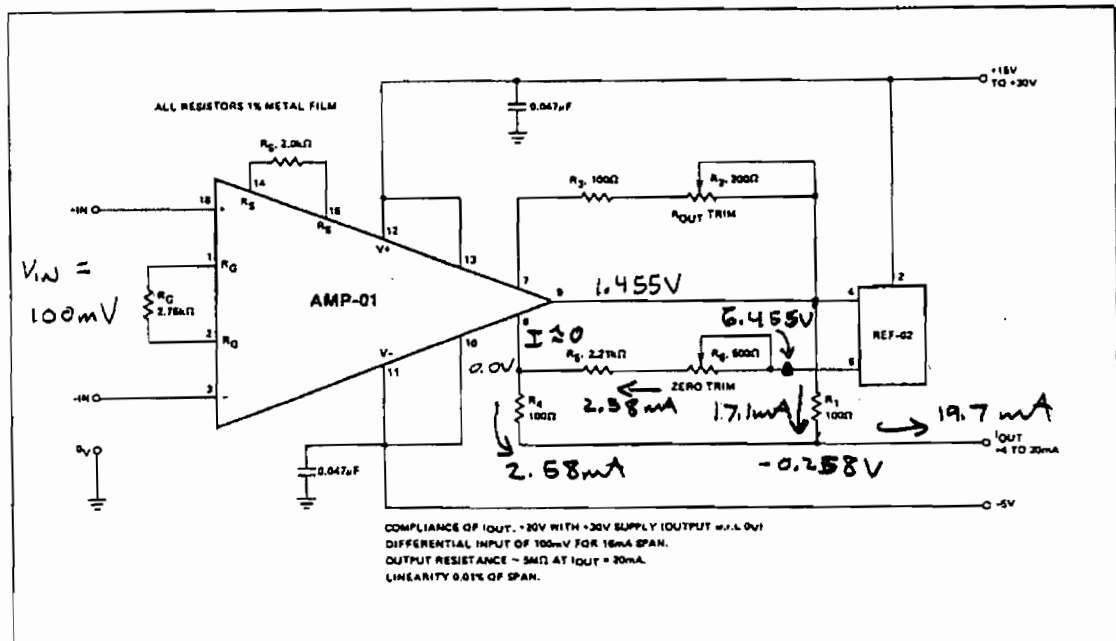


Figure 8. 13-bit linear 4-20mA transmitter constructed by adding a voltage reference. Thermocouple signals can be accepted without preamplification.

Adjust R_6 for 4mA out with 0.0V input.

Adjust R_7 to change gain with full scale input to get 20mA out.

Adjust R_2 to maximize output impedance. Do this trim first.

Trim Procedure: Connect I out to ground through $1k\Omega$ and measure voltage at I_{OUT} . Connect the $1k\Omega$ to +10V and again measure voltage. Adjust R_2 to minimize ΔV .